

Gasification of Lumps of Moscow Region Coal  
With Steam-Oxygen Blast, by G. N. Poluboyarinov,  
18 pp.

RUSSIAN, per, Kialorod, No 2, 1944, pp 21-29.

Sci Tr Center RT-2412

Scientific - Fuels  
Dec 55 CTS/DEX

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Underground Gasifying of Coal and Its Demand  
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Economic - fuels, coal, oxygen, industry

Feb 56                    31,083

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Bratcher Trans, Order No. 1913, \$7.00

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Use of Oxygen-enriched Air in Steel-melting Furnaces  
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SLR - B-1708

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New Insulation for Oxygen Tanks, by Yu. N.  
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Glizmanenko, 15 pp.

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SIA Tr R-749

Sci - Chemistry  
Sep 57

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Kislorod, vol. 1, No. 4, 7 figures, 3 tables,  
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Brutcher Trans, Order No. 2007, \$8.95.

Outlook for Application of Oxygen in the Chemical  
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Econ - Industry

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Economic - Oxygen, sulfuric acid manufacture.

Feb 56      31,085

Application of Oxygen in the Contact Process, by  
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RUSSIAN, per, Kislorod, No 4, 1944, pp 16-27.

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Scientific - Chemistry 32,493

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Operation of Blast Furnace on Peat and Oxygen-  
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Heat Balance of Bessemer Process on Straight Oxygen.

Brutcher Trans, Order No. 1936, \$3.85

Glinkov, M.A.

KISLOROD, vol 2, 1945, #1, pp 1-16

Thermotechnical Problems Regarding Use of Oxygen in O.H.  
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Bratcher Trans 2000, \$13.45

MIKHAILOV, V. V.

Kislorod, v. 2, 1945, No. 1, pp. 16-25; 6 figures,  
4 tables, 5300 words.

Production of Ferrochromium in the Blast Furnace with  
the Use of Oxygen-enriched Air.

Brutcher Trans., Order No. 2025, \$9.30

Working of the Blast Furnace on Oxygen-Enriched Blast,  
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RUSSIAN, per, Kislorod, Vol I, No 1, 1944.

Brutcher Tr No 1903

Scientific - Min/Metals \$4.25

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Kislored, vol. 2, no. 1, 2 figures, 3 tables, 3900  
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Production of Steel by Blowing Oxygen Through  
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Brutcher Trans, Order No. 1900, \$5.85

<p>Mozharov, V. A. THE USE OF OXYGEN FOR STEELMAKING IN RE- VERBERATORY FURNACES. Apr 47 [20]p. [EISI] no. 306; [DSIR LLU] M.2769. Order from OTS or SLA \$2.60 61-23308 Trans. of Kislorod (USSR) 1946 [v. 3] no. 1, p. 1-14. A lecture.</p> <p>1 DESCRIPTORS: *Steel, Production, Open hearth furnaces, Operation, *Oxygen, Effectiveness.</p> <p>(Metallurgy, TT, v. 6, no. 7)</p>	<p>61-23308</p> <p>I. Mozharov, V. A. II. EISI-306 III. DSIR LLU M.2769 IV. British Iron and Steel Industry Translation Service</p> <p>TOP SECRET</p> <p>Office of Technical Services</p>
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Uses of Oxygen in the Melting of Steel in Open-Bearth Furnaces, by I. P. Bardin, P. L. Kapitza, (reply by V. A. Mozharov).

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pp 12-14.

Bratcher Tr No 1895

Also 1886

Scientific - Minerals/Metals S.A R-1877  
\$4.90

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ZHIKHAREVICH, S. A.

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Properties of High Alumina Refractories and  
their Possible Use in Furnaces Operated with  
Oxygen Blast.

Brutcher Trans, Order No. 2080, \$1.10

TSYRKINA, V.M.

KISLOROD, vol 3, No 2-3, 1946

Highly Refractory Oxides

Brutcher Trans 2102, \$3.45

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Experimental Melting of Steel With Oxygen Blast by Acid Bessemer Process. General Discussion., by I. F. Baryshev.

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Scientific - Min/Metals

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The Refractories Problem in Connection With the Use of Oxygen in the Steel Industry, by I. I. Kitaigorodskii, P. P. Budnikov.

Full translation.

RUSSIAN, per, Kislorod, Vol III, No 2-3, 1946, pp 29-31

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Scientific - Refractories, oxygen, steel, industry

PEVZNER, R. L.

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2 tables, 1700 words.

The Production of a New, Highly Refractory  
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Brutcher Trans., Order No. 1969, \$ 2.55. --

Dept. of Ind.,  
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Div. of Tech. Info.  
1) Corundum.

Performance of Converter Tuyeres in Operation With  
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Bratcher Tr No 1952

Scientific - Min/Metals \$4.20

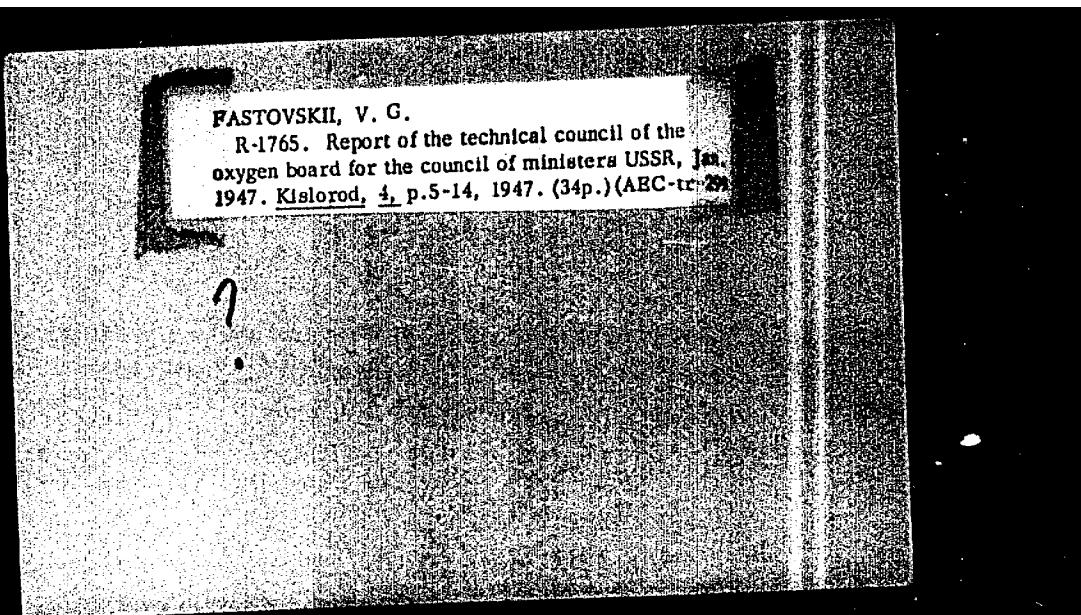
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Highly Refractory Oxides, by V. M. Teynkina.  
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Cycle, by M. B. Stolper, 17 pp.

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Sci Tr Center RT-2444

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Industrial Methods for the Production of Krypton  
and Xenon and Their Application, by V. G. Fastovskiy,  
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AEC Tr 2991  
SLA-R-1765 5-2,447

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Sci - Chemistry  
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Thermodynamic Properties of Nitrogen at Low  
Temperatures and Pressures up to 200 Atmospheres,  
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Dept of Interior  
TM E57 No 555

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Sci - Min/Met

Oct 62

A Method of Preventing Explosions in Air-Separation  
Installations, by I. P. Ishkin, P. Z. Burbo,  
12 pp.

RUSSIAN, per, Kislovod, May 1947, pp 26-34.

Sci Mus Lib Tr 57/1039

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Cupolas operated with oxygen-enriched blast

Brutcher Trans 2066, \$8.55

Clinker

Burning of Portland Cement ~~in~~ With Oxygen-  
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29 pp.

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Sci Trans Center  
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Scientific - Engineering

Dec 54 CTS/DEX

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MEANS OF PREVENTING EXPLOSIONS IN AIR  
SEPARATING EQUIPMENT. [1962] [16]p. 7 refs.  
Order from OTS or SLA \$1.60 62-20158

Trans. of Kislorod (USSR) 1947, v. 4, no. 5, p. 26-34.

DESCRIPTORS: \*Explosions, Air, \*Acetylenes,  
\*Liquid oxygen, Separation, Industrial equipment.

A new method of removing acetylene from air, which provides explosion-proof operation of air separation equipment, was developed. The method is based on the results of investigation of the properties of the acetylene-liquid oxygen system, the dynamic adsorption by silica gel of acetylene from oxygen-nitrogen solutions, and the explosibility of the adsorbers. The method is finding increasing industrial application in large tonnage oxygen plants and also in plants producing technical nitrogen. (Author)  
(Engineering--Chemical, TT, v. 9, no. 11)

62-20158

I. Ishkin, L. P.  
II. Burbo, P. Z.

Office of Technical Services

(FDD 18114)

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M. B. Stolper, 27 pp

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pp 22, 23.

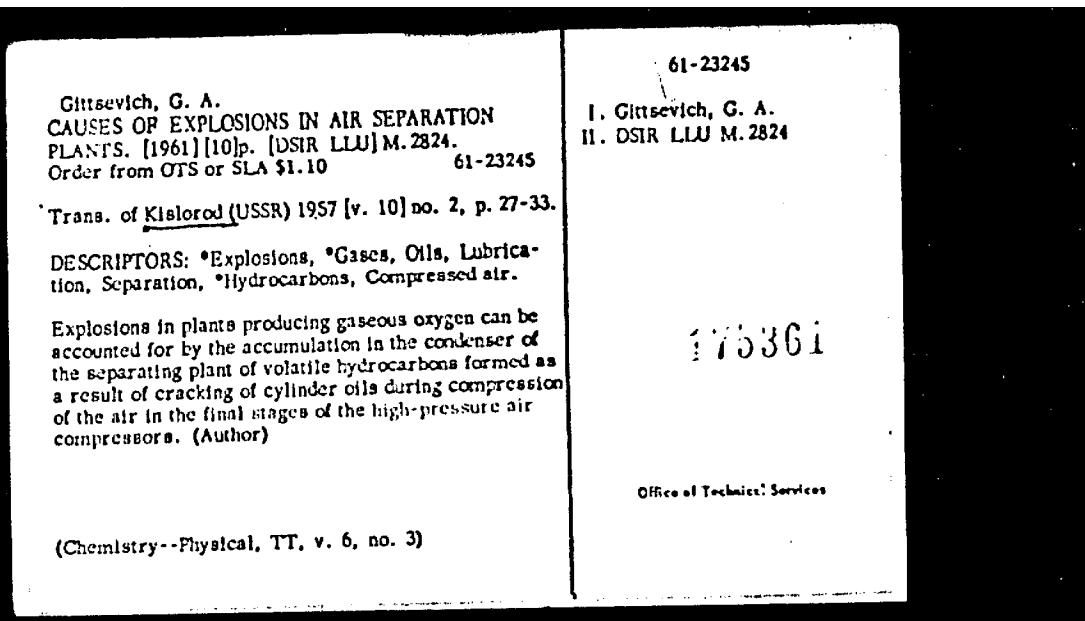
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The Efficiency of Electric Steel Production by  
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ULL M: 4577  
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Carbon Elimination and Mixing in Steel Baths Treated  
With Oxygen, by E. V. Chelishchev.

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HB 4459

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Heat Transfer During the Evaporation of Oxygen  
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16 pp. I D 1345-92 u

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Horizontal Centrifugal Rectifier, by S. Ya. Gerash,  
A. M. Arkberov, 22 pp.

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JNRS-L-1757-D

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27 pp.

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AT&T-25L29R

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CPS V. I, No 9

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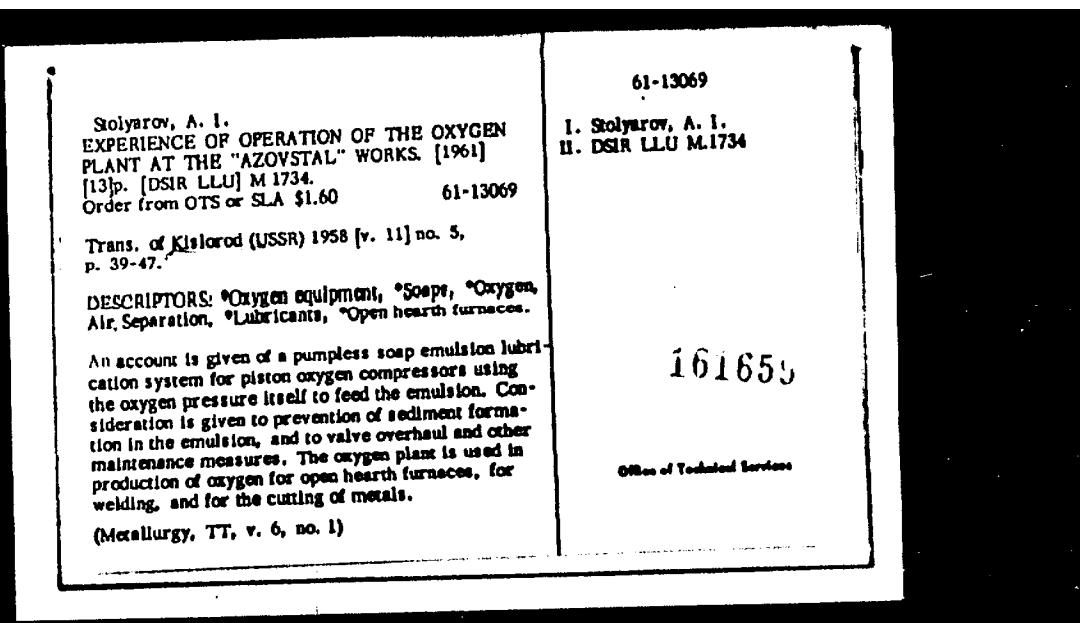
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AT&T-1702

Sci - Engineering, Chemistry  
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OTS V. I, No 9

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The Use of <sup>of</sup> Styrene at Low Temperatures, by A. A.  
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AT&T RJ-1718

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SLA 59-22612  
DSIR LLU 11-658 (LOHN)

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OTS, Vol III, No 7

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(NY-2900/2).

~~Nitrogen~~  
Small-and-Medium-Capacity Installations for the  
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K. N. IVANOV, L. R. Margolin, V. D. Zubchik, 8 pp.

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JPRS-1798-N

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Methylorange Method for Determining Organic Impurities in Liquid Oxygen and In "Evaporator Liquor," by G. V. Zvanova,

ZVANOVА, G. V., Извлечение, Vol. XII, No. 1, 1939,  
pp. 43-47.

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DSIR LLU M-784 (LOAN)

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Heat Insulation of Pipelines and Containers for  
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ATS RJ-1982

Sci - Chem

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(NY-2900/5).

Liquid Nitrogen Installation, by V. D. Zubchik,  
A. D. Kochergin, 4 pp.

RUSSIAN, per, Kirovod, No 2, 1959, pp 9-14.

JFR8-1982-N

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Econ - Technological - Chemical Machinery  
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The Adsorptive Separation of Acetylene and Carbon  
Dioxide From Air in Industrial Gaseous and Liquid  
Oxygen Plants, by I. P. Ishkin, N. F. Katina.

RUSSIAN, per, Kislorod, Vol XII, No 2, 1959,  
pp 37, 38.

ATS RJ-1981

Sci - Chem

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Filippova, G. P. and Ishkin, I. P.  
THE VISCOSITY OF AIR AND ARGON AT TEMPERATURES OF FROM 0° TO -183°C AND PRESSURES OF FROM 1 TO 150 ATM (Vyazkoet' Vozdukha i Argona pri Temperaturakh ot 0 do -183°C Davleniyakh ot 1 do 150 ATA). Doc 60 [3]p. 6 refs. RTS 1696.

Order from LC or SLA m\$1.80, ph\$1.80 61-15235

Trans. of Krasnodar (USSR) 1959, v. 12, no. 2, p. 38.

A method of determining the viscosity of compressed gases at low temperatures is described. The gas flows through two capillaries. One of the capillaries is the working one and the gas flows through it at the given pressure and temperature. The other is the comparative capillary, the gas flowing through it at a pressure close to atmospheric pressure and at room temperature. The desired viscosity is proportional to the ratio of the pressure drops in the capillaries. The results of measurements of the viscosity of air and argon are tabulated.

61-15235

1. Air--Viscosity
2. Argon--Viscosity
- I. Filippova, G. P.
- II. Ishkin, I. P.
- III. RTS-1696
- IV. Department of Scientific and Industrial Research (Gt. Brit.)

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(Mechanics--Aerodynamics,  
TT, v. 5, no. 7)

(NY-2900/5).

The Adsorption Method of Drying Oxygen Under Industrial  
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(NY-2900/5).

Air-Separation Units, by K. N Ivanov, L. R.  
Margolin, 6 pp.

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JPR8-1982-N

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Econ - Technological - Chemical Machinery  
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Selected Translations on Soviet Machine Building --  
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(NY-2900/5).

Pumps for Liquefied Gases, by Yu. A. Miroslavskaya,  
4 pp.

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JFRS-1982-N

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Gritsevich, G. A. and others.  
NEW DATA FOR THE EXPLOSIBILITY OF MIXTURES OF HYDROCARBONS IN LIQUID OXYGEN. [1960] [7]p. 6 refs. M1318. Order from LC or SLA m\$1.80, ph\$1.80 60-23040  
Trans. of Kislorod (USSR) 1959 [v. 12] no. 3, p. 12-16.

Various hydrocarbon fractions were collected by deep-freezing and subjected to explosibility tests in admixture with liquid oxygen. Results indicate that solidified hydrocarbons other than acetylene may also be involved in plant explosions. (Author)

(Chemistry--Physical, TT, v. 5, no. 3)

60-23040

1. Hydrocarbons--Combustion
  2. Oxygen (Liquid)--Physical effects
- I. Gritsevich, G. A.  
II. DSIR LLU M.1318

Office of Technical Services

(NY-2900/5).

KTK-7 Oxygen Turbocompressor, 6 pp.

RUSSIAN, per, Kislorod, No 3, 1959, pp 51, 52.

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Detonating Ability of Mixtures of Acetylene and  
Oils With Liquid Oxygen, by Z. B. Basyrzov,  
V. G. Mikhedov,

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AT&T RJ-2220

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JPRS 6690

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JPRS 3261

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Separation of Deuterium From Hydrogen by Means  
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ERDL Ft Belvoir  
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Sci - Engr

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Jun 61

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Sci - Engr

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JPRS 25796

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Effect of Oxygen in Ionizing Radiation, by E. S.  
Shchepot'eva, S. N. Ardashnikov, G. K. Lar'yce,  
T. B. Rakhmanova, 161 pp.

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AEC Tr-4265

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JPRS 6394

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JULY 63

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FE - China

Soc

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Sovetskogo soyusa.  
RUSSIAN, bk, Kitoboinyi promysel Sovetskogo  
soyusa, 1955, pp 5-29; 51-68.  
\*CFSTI TT 68-50459

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F. P. SHEVCHENKO, 367 PP.

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KHRONIKA PODIY NA UKRAYINI 1959-1961, KIEV, 1962,  
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J PRS 21890

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